



Arbovirus Surveillance Program
Massachusetts Department of Public Health
Infectious Diseases Laboratory Division
State Laboratory Institute

Date: August 18, 2000

Eight additional crows, three from the Jamaica Plain section of Boston, four from Brookline and one from Wellesley were confirmed positive for West Nile Virus this week. One of the three positive crows from Jamaica Plain was found dead on August 7th, two were found dead on August 8th. The Brookline crows were found on August 8th, 9th, 10th and 13th. The WNV positive crow from Wellesley was found on August 8th. To date, fourteen birds, twelve crows, a robin and a grackle have been confirmed positive for WNV in Massachusetts. Seven of these were found dead in Brookline, four in Jamaica Plain. Single birds from Hopkinton, Upton and Wellesley have also tested positive. The Massachusetts Department of Public Health issued a press release today reminding Massachusetts residents to take precautions to avoid mosquitoes and to remove standing water from around their homes. Based on an assessment of local conditions, consideration of limited and targeted mosquito control may be appropriate where WNV infected birds are found.

Trapping continued at the sixteen regular long-term sites in Plymouth, Bristol, Norfolk, Middlesex and eastern Worcester Counties. Sites in Boston, Northampton, Springfield, and Greenfield were also trapped. In addition, Mosquito Control Projects throughout the state continue to send in mosquitoes for testing. Over 1300 mosquito pools collected from sites throughout Massachusetts have been tested to date. One pool of *Culex pipiens* mosquitoes trapped in Brookline on August 8th, close to the location of a virus positive bird, tested positive for WNV. One pool of *Cs. melanura* trapped in Foxboro on August 14th tested positive for EEEV. In addition, samples from two of seven emus that died this week on a Norton farm were submitted for testing. All of the dead birds exhibited symptoms consistent with EEEV infection. One emu has been confirmed positive for EEEV and results are pending on the second.

To date, specimens have been submitted from 64 patients. Forty have tested negative for WNV infections. Twenty-four are pending.

Weekly arbovirus reports and informational material on WNV and EEEV can be accessed at <http://www.state.ma.us/dph>.

Total Number of Mosquitoes Analyzed: 15,202

Virus Isolates in Mosquito Pools:

<u>Virus</u>	<u>Mosquito</u>	<u>Site</u>	<u>Collection Date</u>
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1 HJV	<i>Culex pipiens</i>	Boston	6/29/00
1 EEEV	<i>Culiseta melanura</i>	Easton	7/23/00
1 EEEV	<i>Culiseta melanura</i>	Boston	7/24/00
1 WNV	<i>Culex pipiens</i>	Brookline	8/8/00
1 EEEV	<i>Culiseta melanura</i>	Foxboro	8/14/00

WNV Positive Birds:

<u>Site</u>	<u>Species</u>	<u>Date of Bird Death</u>
Boston	Crow	7/22/00
Hopkinton	Crow	7/21/00
Boston	Robin	7/28/00
Brookline	Crow	8/1/00
Brookline	Grackle	8/6/00
Upton	Crow	8/6/00
Boston	Crow	8/7/00
Boston	Crow	8/8/00
Brookline	Crow	8/8/00
Brookline	Crow	8/8/00
Brookline	Crow	8/9/00
Wellesley	Crow	8/9/00
Brookline	Crow	8/10/00
Brookline	Crow	8/13/00

Mosquito Surveillance Weekly Test Report

08/12/00 to 08/18/00

Mosquito Species*

Virus in Mosquito Pools**

Site	Cs mel	Cq per	Ae can	Ae vex	Cx pip	Cx other	Other Sp	EEEV	HJV	WNV
Boston	0	0	0	0	0	0	0	0	0	0
Brockton	3	0	0	3	3	0	0	0	0	0
Canton	5	5	0	7	2	0	0	0	0	0
Carver	0	15	0	0	10	0	0	0	0	0
Easton	5	0	0	0	0	0	0	0	0	0
Foxboro	35	3	0	0	0	0	0	1	0	0
Greenfield	0	0	0	2	3	1	0	0	0	0
Halifax	35	2	0	1	1	0	0	0	0	0
Hanover	13	1	0	26	3	0	0	0	0	0
Holliston	77	0	2	0	0	0	0	0	0	0
Hopkinton	0	0	0	5	3	221	0	0	0	0
Kingston	26	0	0	0	13	1	0	0	0	0
Lakeville	6	3	0	0	14	6	0	0	0	0
New Bedford	51	0	0	2	3	0	0	0	0	0
Northampton	0	0	3	31	13	0	0	0	0	0
Raynham	3	2	0	9	3	0	0	0	0	0
Rehoboth	7	7	4	2	2	0	0	0	0	0
Springfield	0	0	0	3	30	5	0	0	0	0
Upton	0	0	0	0	0	57	1	0	0	0
Walpole	6	5	0	18	1	0	0	0	0	0
Westboro	29	0	1	1	4	1	0	0	0	0
Westport	16	0	0	2	0	0	0	0	0	0
Total for DPH	317	43	10	112	108	292	1	1	0	0

*Mosquito species name abbreviations:

Cs mel = *Culiseta melanura*
 Cq per = *Coquillettidia perturbans*
 Ae can = *Aedes canadensis*
 Ae vex = *Aedes vexans*
 Cx pip = *Culex pipiens*

**Virus name abbreviations:

EEEV = Eastern Equine Encephalitis Virus
 HJV = Highlands J Virus
 WNV = West Nile Virus

Mosquito Surveillance Cumulative Test Report 05/31/00 to 08/18/00

Site	Mosquito Species*							Virus in Mosquito Pools**		
	Cs mel	Cq per	Ae can	Ae vex	Cx pip	Cx other	Other Sp	EEEV	HJV	WNV
Boston	1	0	0	0	524	296	0	0	0	0
Brockton	87	24	15	7	15	13	0	0	0	0
Canton	122	92	27	19	16	13	0	0	0	0
Carver	107	337	11	2	15	4	0	0	0	0
Easton	630	22	242	4	78	77	1	1	0	0
Foxboro	232	82	53	9	32	9	0	1	0	0
Greenfield	2	1	0	3	34	11	3	0	0	0
Halifax	773	27	45	3	56	32	12	0	0	0
Hanover	115	7	7	27	16	6	1	0	0	0
Holliston	217	8	81	6	13	23	0	0	0	0
Hopkinton	0	0	1	13	143	341	1	0	0	0
Kingston	266	43	10	3	49	19	0	0	0	0
Lakeville	31	35	6	0	37	20	0	0	0	0
New Bedford	417	17	22	6	76	30	1	0	0	0
Northampton	1	3	18	245	29	1	1	0	0	0
Raynham	80	23	21	15	20	11	15	0	0	0
Rehoboth	53	7	64	11	12	4	0	0	0	0
Springfield	18	4	7	15	55	30	0	0	0	0
Upton	0	0	0	0	0	57	1	0	0	0
Walpole	121	312	31	77	17	4	8	0	0	0
Westboro	198	33	50	11	56	18	6	0	0	0
Westport	56	1	25	4	2	18	2	0	0	0
Total for DPH	3527	1078	736	480	1295	1037	52	2	0	0

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Mosquito Control District Cumulative Surveillance Report through 8/18/00

<i>Site</i>	<i>Mosquito Species*</i>						<i>Virus in Mosquito Pools**</i>			
	<i>Cs mel</i>	<i>Cq per</i>	<i>Ae can</i>	<i>Ae vex</i>	<i>Cx pip</i>	<i>Cx other</i>	<i>Other Sp</i>	<i>EEEV</i>	<i>HJV</i>	<i>WNV</i>
Berkshire County MCD	0	0	0	0	0	0	4	0	0	0
Bristol County MCD	9	0	0	1	780	148	1	0	0	0
Cape Cod MCD	0	0	0	0	0	1947	0	0	0	0
Central MA MCD	0	0	0	0	134	179	3	0	0	0
East Middlesex MCD	0	0	0	0	250	895	0	0	0	1
Essex County MCD	0	0	0	0	75	9	0	0	0	0
Norfolk County MCD	0	0	0	0	19	0	0	0	0	0
Norfolk County MCD	0	0	0	0	176	30	0	0	0	0
Northeast MCD	0	0	0	0	2	1	0	0	0	0
Plymouth County MCD	0	7	0	38	191	10	0	0	0	0
Suffolk County MCD	119	237	98	682	572	378	2	1	1	0
<i>Total for MCD</i>	128	244	98	721	2199	3597	10	1	1	1

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